

# Unit 1: Matter and Energy

## Unit Review

Name: **KEY**

Date: \_\_\_\_\_ Class: \_\_\_\_\_

**Directions:** Complete the following review questions. Review your Cornell notes, learning targets, worksheets, labs, and other assignments to adequately prepare for the unit test.

### Learning Target(s): 1, 2, 3, 4, 10

- In the Melting of a Solid lab, you heated (or cooled) an unknown solid and recorded its temperature at 30-second intervals. From this data you created a heating (or cooling) curve to identify the substance.
  - Identify the independent variable of this experiment: **the time you heat the solid for**
  - Identify the dependent variable of this experiment: **the temperature of the solid**
  - Identify the control for this experiment: **substance used; method of heating**
- Decide whether the following observations are qualitative or quantitative:
  - The solution began to get cloudy once the second reagent was added. **Qualitative**
  - The piece of magnesium was 1.25 centimeters in length. **Quantitative**
  - The mass of the block decreased by fifteen grams. **Quantitative**
  - The test tube appeared to have a dark orange solid suspended in the solution. **Qualitative**
  - The residue left in test tube 5 was slightly larger than in test tube 4. **Qualitative**

### Learning Target(s): 15

- Suggest a process to use to separate each of the following mixtures:
  - A mix of salt and water: \_\_\_\_\_
  - A smoothie drink with veggies and fruits of different densities: \_\_\_\_\_
- Which physical property does filtration use to separate a mixture? \_\_\_\_\_

### Learning Target(s): 5, 6

- Describe at least two safety precautions to use when using a Bunsen Burner in lab:
  - Tie back hair and loose clothing**
  - Light match first then turn on gas valve**
- Which type of lab equipment would be most appropriate to measure 4 mL of water in? Choose one and explain why.
  - A 250 mL beaker
  - A 10 mL graduated cylinder**
  - An electronic balance
  - A 50 mL graduated cylinder
  - A large test tube
  - A thermometer

*You would get the most accurate measurement with this size. This piece of equipment has graduations to measure volume.*

# Knowledge Matter Answer Key

**B Lingard**



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